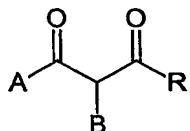


## CLAIMS

1. Derivatives of 1,3-diones having general formula (I):



5

( I )

wherein:

- A represents:

10 an aryl group optionally substituted by one or more substituents selected from halogen, NO<sub>2</sub>, CN, CHO, OH, linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> alkoxy, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkoxy, C<sub>1</sub>-C<sub>6</sub> cyanoalkyl, C<sub>2</sub>-C<sub>6</sub> 15 alkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> alkylthioalkyl, C<sub>2</sub>-C<sub>6</sub> alkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> alkylsulfonylalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylthioalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylsulfonylalkyl, C<sub>2</sub>-C<sub>6</sub> alkoxyalkoxy or C<sub>2</sub>-C<sub>6</sub> haloalkoxyalkoxy 20 optionally substituted with a group selected from C<sub>1</sub>-C<sub>4</sub> alkoxy or C<sub>1</sub>-C<sub>4</sub> haloalkoxy, C<sub>2</sub>-C<sub>6</sub> alkylthioalkoxy, C<sub>2</sub>-C<sub>6</sub> haloalkylthioalkoxy, C<sub>3</sub>-C<sub>12</sub> dialkoxyalkyl, C<sub>3</sub>-C<sub>12</sub> dialkylthioalkyl, C<sub>3</sub>-C<sub>12</sub> dialkylthioalkoxy, C<sub>3</sub>-C<sub>12</sub> dialkoxyalkoxy, C<sub>2</sub>-C<sub>6</sub>

haloalkoxyhaloalkoxyl,  $C_3-C_{10}$  alkoxyalkoxyalkyl,  $C_2-C_6$  alkenyl,  $C_2-C_6$  haloalkenyl,  $C_2-C_6$  alkenyloxy,  $C_2-C_6$  haloalkenyloxy,  $C_3-C_8$  alkenyloxyalkoxyl,  $C_3-C_8$  haloalkenyloxyalkoxyl,  $C_2-C_6$  alkynyl,  $C_2-C_6$  5 haloalkynyl,  $C_2-C_6$  alkynyloxy,  $C_2-C_6$  haloalkynyloxy,  $C_3-C_8$  alkynyloxyalkoxyl,  $C_3-C_8$  haloalkynyloxyalkoxyl,  $C_3-C_{12}$  acylaminoalkoxy,  $C_2-C_8$  alkoxyiminoalkyl,  $C_2-C_8$  haloalkoxyiminoalkyl,  $C_3-C_8$  alkenyloxyiminoalkyl,  $C_3-C_8$  haloalkenyloxyiminoalkyl,  $C_3-C_8$  alkynyloxyiminoalkyl,  $C_3-C_8$  haloalkynyloxyiminoalkyl,  $C_5-C_{10}$  alkoxyalkynyloxy,  $C_6-C_{12}$  cycloalkylideneiminooxyalkyl,  $C_6-C_{12}$  dialkylideneiminooxyalkyl,  $-S(O)_mR_1$ ,  $-OS(O)_tR_1$ ,  $-SO_2NR_2R_3$ ,  $-CO_2R_4$ ,  $-COR_5$ ,  $-CONR_6R_7$ ,  $-CSNR_8R_9$ , 10  $-NR_{10}R_{11}$ ,  $-NR_{12}COR_{13}$ ,  $-NR_{14}CO_2R_{15}$ ,  $-NR_{16}CONR_{17}R_{18}$ ,  $-PO(R_{19})_2$ ,  $-Q$ ,  $-ZQ_1$ ,  $-(CR_{20}R_{21})_pQ_2$ ,  $-Z(CR_{22}R_{23})_pQ_3$ ,  $-(CR_{24}R_{25})_pZQ_4$ ,  $-(CR_{26}R_{27})_pZ(CR_{28}R_{29})_qQ_5$ , 15  $-(CR_{30}R_{31})_pZ(CR_{32}R_{33})_qZ_1Q_6$ ,  $-Z_2(CR_{34}R_{35})_p(C=Y)T$ ,  $-Z_3(CR_{36}R_{37})_v(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$ ; 20 or it represents a heterocyclic group selected from pyridyl, pyrimidyl, quinolinyl, pyrazolyl, thiazolyl, oxazolyl, thiienyl, furyl, benzothienyl, dihydrobenzothienyl, benzofuranyl, dihydrobenzofuranyl, benzoxazolyl, benzoxazolonyl, 25 benzothiazolyl, benzothiazolonyl, benzoimidazolyl,

benzimidazolonyl, benzotriazolyl, chromanonyl,  
chromanyl, thiochromanonyl, thiochromanyl, 3a,4-  
dihydro-3H-indeno[1,2-c]isoxazolyl, 3a,4-dihydro-3H-  
chromeno[4,3-c]isoxazolyl, 5,5-dioxide-3a,4-dihydro-  
5 3H-thiochromeno[4,3-c]isoxazolyl, 2,3,3a,4-  
tetrahydrochromeno[4,3-c]pyrazolyl, 6,6-dioxide-2,3-  
dihydro-5H-[1,4]dithiino[2,3-c]thiochromenyl, 5,5-  
dioxide-2,3,3a,4-tetrahydrothiochromeno[4,3-  
c]pyrazolyl, 1',1'-dioxide-2',3'-dihydrospiro[1,3-  
10 dioxolano-2,4'-thiochromen]-yl, 1,1,4,4-tetraoxide-  
2,3-dihydro-1,4-benzodithiin-6-yl, 4,4-dioxide-2,3-  
dihydro-1,4-benzoxathiin-7-yl, 1,1-dioxide-3-oxo-2,3-  
dihydro-1,2-benzoisothiazol-5-yl, 4-(alkoxyimino)-  
1,1-dioxide-3,4-dihydro-2H-thiochromen-6-yl, 1,1-  
15 dioxide-4-oxo-3,4-dihydro-2H-thiochromen-6-yl, 2,3-  
dihydro-1,4-benzoxathiin-7-yl,  
with said groups optionally substituted by one or  
more substituents selected from halogen, NO<sub>2</sub>, CN,  
CHO, OH, linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or  
20 branched C<sub>1</sub>-C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub>  
alkoxyl, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkoxyl, C<sub>1</sub>-C<sub>6</sub>  
cyanoalkyl, C<sub>2</sub>-C<sub>6</sub> alkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> alkylthioalkyl,  
C<sub>2</sub>-C<sub>6</sub> alkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> alkylsulfonylalkyl,  
C<sub>2</sub>-C<sub>6</sub> haloalkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylthioalkyl, C<sub>2</sub>-C<sub>6</sub>  
25 haloalkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylsulfonylalkyl,  
:

C<sub>2</sub>-C<sub>6</sub> alkoxyalkoxyl or C<sub>2</sub>-C<sub>6</sub> haloalkoxyalkoxyl  
 optionally substituted with a group selected from C<sub>1</sub>-  
 C<sub>4</sub> alkoxy or C<sub>1</sub>-C<sub>4</sub> haloalkoxyl, C<sub>2</sub>-C<sub>6</sub>  
 alkylthioalkoxyl, C<sub>2</sub>-C<sub>6</sub> haloalkylthioalkoxyl, C<sub>3</sub>-C<sub>12</sub>  
 5 dialkoxyalkyl, C<sub>3</sub>-C<sub>12</sub> dialkylthioalkyl, C<sub>3</sub>-C<sub>12</sub>  
 dialkylthioalkoxyl, C<sub>3</sub>-C<sub>12</sub> dialkoxyalkoxyl, C<sub>2</sub>-C<sub>6</sub>  
 haloalkoxyhaloalkoxyl, C<sub>3</sub>-C<sub>10</sub> alkoxyalkoxyalkyl, C<sub>2</sub>-C<sub>6</sub>  
 alkenyl, C<sub>2</sub>-C<sub>6</sub> haloalkenyl, C<sub>2</sub>-C<sub>6</sub> alkenyloxy, C<sub>2</sub>-C<sub>6</sub>  
 haloalkenyloxy, C<sub>3</sub>-C<sub>8</sub> alkenyloxyalkoxyl, C<sub>3</sub>-C<sub>8</sub>  
 10 haloalkenyloxyalkoxyl, C<sub>2</sub>-C<sub>6</sub> alkynyl, C<sub>2</sub>-C<sub>6</sub>  
 haloalkynyl, C<sub>2</sub>-C<sub>6</sub> alkynyloxy, C<sub>2</sub>-C<sub>6</sub> haloalkynyloxy,  
 C<sub>3</sub>-C<sub>8</sub> alkynyloxyalkoxyl, C<sub>3</sub>-C<sub>8</sub> haloalkynyloxyalkoxyl,  
 C<sub>3</sub>-C<sub>12</sub> acylaminoalkoxy, C<sub>2</sub>-C<sub>8</sub> alkoxyiminoalkyl, C<sub>2</sub>-C<sub>8</sub>  
 haloalkoxyiminoalkyl, C<sub>3</sub>-C<sub>8</sub> alkenyloxyiminoalkyl, C<sub>3</sub>-  
 15 C<sub>8</sub> haloalkenyloxyiminoalkyl, C<sub>3</sub>-C<sub>8</sub>  
 alkynyloxyiminoalkyl, C<sub>3</sub>-C<sub>8</sub> haloalkynyloxyiminoalkyl,  
 C<sub>5</sub>-C<sub>10</sub> alkoxyalkynyloxy, C<sub>6</sub>-C<sub>12</sub>  
 cycloalkylideneiminooxyalkyl, C<sub>6</sub>-C<sub>12</sub>  
 dialkylideneiminooxyalkyl, -S(O)<sub>m</sub>R<sub>1</sub>, -OS(O)<sub>t</sub>R<sub>1</sub>,  
 20 -SO<sub>2</sub>NR<sub>2</sub>R<sub>3</sub>, -CO<sub>2</sub>R<sub>4</sub>, -COR<sub>5</sub>, -CONR<sub>6</sub>R<sub>7</sub>, -CSNR<sub>8</sub>R<sub>9</sub>,  
 -NR<sub>10</sub>R<sub>11</sub>, -NR<sub>12</sub>COR<sub>13</sub>, -NR<sub>14</sub>CO<sub>2</sub>R<sub>15</sub>, -NR<sub>16</sub>CONR<sub>17</sub>R<sub>18</sub>,  
 -PO(R<sub>19</sub>)<sub>2</sub>, -Q, -ZQ<sub>1</sub>, -(CR<sub>20</sub>R<sub>21</sub>)<sub>p</sub>Q<sub>2</sub>, -Z(CR<sub>22</sub>R<sub>23</sub>)<sub>p</sub>Q<sub>3</sub>,  
 -(CR<sub>24</sub>R<sub>25</sub>)<sub>p</sub>ZQ<sub>4</sub>, -(CR<sub>26</sub>R<sub>27</sub>)<sub>p</sub>Z(CR<sub>28</sub>R<sub>29</sub>)<sub>q</sub>Q<sub>5</sub>,  
 -(CR<sub>30</sub>R<sub>31</sub>)<sub>p</sub>Z(CR<sub>32</sub>R<sub>33</sub>)<sub>q</sub>Z<sub>1</sub>Q<sub>6</sub>, -Z<sub>2</sub>(CR<sub>34</sub>R<sub>35</sub>)<sub>p</sub>(C=Y)T,  
 25 -Z<sub>3</sub>(CR<sub>36</sub>R<sub>37</sub>)<sub>v</sub>(CR<sub>38</sub>R<sub>39</sub>=CR<sub>40</sub>R<sub>41</sub>)(C=Y)T;

- B represents a D-(R<sub>x</sub>)<sub>n</sub> group;

- R represents a hydrogen atom, a linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl group, a linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkyl group, a C<sub>3</sub>-C<sub>6</sub> cycloalkyl or C<sub>4</sub>-C<sub>12</sub> cycloalkylalkyl group optionally substituted with halogen atoms or C<sub>1</sub>-C<sub>6</sub> alkyl or C<sub>1</sub>-C<sub>6</sub> thioalkyl or C<sub>1</sub>-C<sub>6</sub> alkoxy or C<sub>2</sub>-C<sub>6</sub> alkoxy carbonyl groups, C<sub>2</sub>-C<sub>6</sub> alkenyl groups, C<sub>2</sub>-C<sub>6</sub> alkynyl groups, the latter two groups, in turn, optionally substituted with halogen atoms, a C<sub>5</sub>-C<sub>6</sub> cycloalkenyl group optionally substituted with halogen atoms or C<sub>1</sub>-C<sub>6</sub> alkyl groups, an aryl or arylalkyl group optionally substituted;

- R<sub>1</sub> and R<sub>19</sub> represent a C<sub>1</sub>-C<sub>6</sub> alkyl group or a C<sub>1</sub>-C<sub>6</sub> haloalkyl group, a C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, an aryl group optionally substituted by one or more substituents selected from halogen, NO<sub>2</sub>, CN, CHO, linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> alkoxy, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkoxy, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, C<sub>2</sub>-C<sub>6</sub> alkoxy carbonyl;

- m is equal to 0, 1 or 2;

- t is equal to 1 or 2;

- R<sub>2</sub>, R<sub>3</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub>, R<sub>10</sub>, R<sub>11</sub>, R<sub>17</sub> and R<sub>18</sub>, the same or different, represent a hydrogen atom, a linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl group in turn optionally

substituted with halogen atoms, a C<sub>1</sub>-C<sub>6</sub> alkoxy group, a C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, an arylalkyl group or an aryl group, said arylalkyl and aryl groups also optionally substituted by one or more substituents

5 selected from halogen, NO<sub>2</sub>, CN, CHO, linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> alkoxy, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkoxyl, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, C<sub>2</sub>-C<sub>6</sub> alkoxy carbonyl, or they jointly represent a C<sub>2</sub>-

10 C<sub>5</sub> alkylene group;

- R<sub>4</sub>, R<sub>5</sub> and R<sub>42</sub> represent a hydrogen atom, a linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl group in turn optionally substituted with halogen atoms, a C<sub>3</sub>-C<sub>6</sub> alkenyl group in turn optionally substituted with halogen atoms, a

15 Q<sub>7</sub> group, an arylalkyl group optionally substituted by one or more substituents selected from halogen, NO<sub>2</sub>, CN, CHO, linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> alkoxy, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkoxyl, C<sub>1</sub>-C<sub>6</sub>

20 alkylsulfonyl, C<sub>2</sub>-C<sub>6</sub> alkoxy carbonyl;

- R<sub>12</sub>, R<sub>14</sub> and R<sub>16</sub> represent a hydrogen atom, a linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl group in turn optionally substituted with halogen atoms, a C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, a C<sub>1</sub>-C<sub>6</sub> alkoxy group, a C<sub>1</sub>-C<sub>6</sub> haloalkoxyl

25 group;

- R<sub>13</sub> and R<sub>15</sub> represent a hydrogen atom, a linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl group in turn optionally substituted with halogen atoms, a C<sub>3</sub>-C<sub>6</sub> alkenyl group in turn optionally substituted with halogen atoms, a 5 Q<sub>7</sub>, NH<sub>2</sub>, NH<sub>2</sub>CN, NH<sub>2</sub>NH<sub>2</sub>, NHOH group, an arylalkyl group optionally substituted by one or more substituents selected from halogen, NO<sub>2</sub>, CN, CHO, linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> alkoxy, linear 10 or branched C<sub>1</sub>-C<sub>6</sub> haloalkoxy, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, C<sub>2</sub>-C<sub>6</sub> alkoxy carbonyl;

- R<sub>20</sub>, R<sub>21</sub>, R<sub>22</sub>, R<sub>23</sub>, R<sub>24</sub>, R<sub>25</sub>, R<sub>26</sub>, R<sub>27</sub>, R<sub>28</sub>, R<sub>29</sub>, R<sub>30</sub>, R<sub>31</sub>, R<sub>32</sub>, R<sub>33</sub>, R<sub>34</sub>, R<sub>35</sub>, R<sub>36</sub>, R<sub>37</sub>, R<sub>38</sub>, R<sub>39</sub>, R<sub>40</sub> and R<sub>41</sub>, the same or different, represent a hydrogen atom, a 15 linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl group in turn optionally substituted with halogen atoms, a C<sub>1</sub>-C<sub>6</sub> alkoxy group, or the two groups attached to the same carbon atom can be joined to each other by C<sub>2</sub>-C<sub>5</sub> alkylene groups, the alkylene groups can in turn be 20 substituted with C<sub>1</sub>-C<sub>3</sub> alkyl groups;

- Q, Q<sub>1</sub>, Q<sub>2</sub>, Q<sub>3</sub>, Q<sub>4</sub>, Q<sub>5</sub>, Q<sub>6</sub> and Q<sub>7</sub> represent an aryl group, a C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, a C<sub>5</sub>-C<sub>6</sub> cycloalkenyl group, a heterocyclic group selected from triazolyl, triazolonyl, pyrazolyl, imidazolyl, imidazolidinonyl, 25 tetrazolyl, tetrazolonyl, isoxazolyl, furyl, thieryl,

pyrrolyl, pyrrolidinyl, pyrrolidinonyl, pyridyl,  
pyrimidinyl, pyrimidinonyl, pyrazinyl, pyridazinyl,  
oxazolyl, thiazolyl, oxadiazolyl, thiadiazolyl,  
isothiazolyl, benzoxazolyl, benzothiazolyl,  
5 isoxazoliny, 1,3-dioxanyl, 1,4-dioxanyl, 1,3-  
dioxolanyl, tetrahydropyranyl, oxethanyl, oxyranyl,  
thiazolidinyl, oxazolidinyl, piperidinyl,  
piperidinonyl, piperazinyl, morpholinyl, thiazinyl,  
tetrahydrofuranyl, dioxazolyl,  
10 tetrahydrofuroisoxazolyl, 2-oxa-3-  
azabicyclo[3.1.0]hex-3-enyl,  
said groups optionally substituted by one or more  
substituents selected from halogen, NO<sub>2</sub>, OH, CN, CHO,  
linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or branched C<sub>1</sub>-  
15 C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> alkoxy, linear  
or branched C<sub>1</sub>-C<sub>6</sub> haloalkoxy, C<sub>1</sub>-C<sub>6</sub> cyanoalkyl, C<sub>2</sub>-C<sub>6</sub>  
alkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> alkylthioalkyl, C<sub>2</sub>-C<sub>6</sub>  
alkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> alkylsulfonylalkyl, C<sub>2</sub>-C<sub>6</sub>  
haloalkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylthioalkyl, C<sub>2</sub>-C<sub>6</sub>  
20 haloalkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylsulfonylalkyl,  
C<sub>2</sub>-C<sub>6</sub> alkoxyalkoxy or C<sub>2</sub>-C<sub>6</sub> haloalkoxyalkoxy  
optionally substituted with a group selected from C<sub>1</sub>-  
C<sub>4</sub> alkoxy or C<sub>1</sub>-C<sub>4</sub> haloalkoxy, C<sub>2</sub>-C<sub>6</sub>  
alkylthioalkoxy, C<sub>2</sub>-C<sub>6</sub> haloalkylthioalkoxy, C<sub>3</sub>-C<sub>12</sub>  
25 dialkoxyalkyl, C<sub>3</sub>-C<sub>12</sub> dialkylthioalkyl, C<sub>3</sub>-C<sub>12</sub>

dialkylthioalkoxyl,  $C_3-C_{12}$  dialkoxyalkoxyl,  $C_2-C_6$   
 haloalkoxyhaloalkoxyl,  $C_3-C_{10}$  alkoxyalkoxyalkyl,  $C_2-C_6$   
 alkenyl,  $C_2-C_6$  haloalkenyl,  $C_2-C_6$  alkenyloxy,  $C_2-C_6$   
 haloalkenyloxy,  $C_3-C_8$  alkenyloxyalkoxyl,  $C_3-C_8$   
 5 haloalkenyloxyalkoxyl,  $C_2-C_6$  alkynyl,  $C_2-C_6$   
 haloalkynyl,  $C_2-C_6$  alkynyloxy,  $C_2-C_6$  haloalkynyloxy,  
 $C_3-C_8$  alkynyloxyalkoxyl,  $C_3-C_8$  haloalkynyloxyalkoxyl,  
 $C_3-C_{12}$  acylaminoalkoxy,  $C_2-C_8$  alkoxyiminoalkyl,  $C_2-C_8$   
 haloalkoxyiminoalkyl,  $C_3-C_8$  alkenyloxyiminoalkyl,  $C_3-$   
 10  $C_8$  haloalkenyloxyiminoalkyl,  $C_3-C_8$   
 alkynyloxyiminoalkyl,  $C_3-C_8$  haloalkynyloxyiminoalkyl,  
 $C_5-C_{10}$  alkoxyalkynyloxy,  $C_6-C_{12}$   
 cycloalkylideneiminooxyalkyl,  $C_6-C_{12}$   
 dialkylideneiminooxyalkyl, aryl optionally  
 15 substituted,  $-S(O)_mR_1$ ,  $-OS(O)_tR_1$ ,  $-SO_2NR_2R_3$ ,  
 $-CO_2R_4$ ,  $-COR_5$ ,  $-CONR_6R_7$ ,  $-CSNR_8R_9$ ,  $-NR_{10}R_{11}$ ,  
 $-NR_{12}COR_{13}$ ,  $-NR_{14}CO_2R_{15}$ ,  $-NR_{16}CONR_{17}R_{18}$ ,  $-PO(R_{19})_2$ ,  
 $-Z_2(CR_{34}R_{35})_p(C=Y)T$ ,  $-Z_3(CR_{36}R_{37})_v(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$ ;  
 $-Z_1$ ,  $Z_2 = O$ ,  $S(O)_r$ ;  
 20  $-Y = O$ ,  $S$ ;  
 $-r$  is equal to 0, 1 or 2;  
 $-p$ ,  $q$  are equal to 1, 2, 3 or 4;  
 $-v$  is equal to 0 or 1;  
 $-Z_3 = O$ ,  $S$  or a direct bond;

- T represents a hydrogen atom, a  $Z_4R_{42}$  group, a -  $NR_{43}R_{44}$  group, an aryl group or a heterocyclic group selected from triazolyl, triazolonyl, pyrazolyl, imidazolyl, imidazolidinonyl, tetrazolyl, 5 tetrazolonyl, pyrrolyl, pyrrolidinyl, pyrrolidinonyl, pyridyl, pyrimidinyl, piperidinyl, piperidinonyl, piperazinyl, morpholinyl, said groups optionally substituted by one or more substituents selected from halogen,  $NO_2$ , OH, CN, CHO, linear or branched  $C_1-C_6$  10 alkyl, linear or branched  $C_1-C_6$  haloalkyl,  $C_3-C_6$  cycloalkyl,  $C_5-C_6$  cycloalkenyl, linear or branched  $C_1-C_6$  alkoxy, linear or branched  $C_1-C_6$  haloalkoxy,  $C_1-C_6$  cyanoalkyl,  $C_2-C_6$  alkoxyalkyl,  $C_2-C_6$  alkylthioalkyl,  $C_2-C_6$  alkylsulfinylalkyl,  $C_2-C_6$  15 alkylsulfonylalkyl,  $C_2-C_6$  haloalkoxyalkyl,  $C_2-C_6$  haloalkylthioalkyl,  $C_2-C_6$  haloalkylsulfinylalkyl,  $C_2-C_6$  haloalkylsulfonylalkyl,  $-S(O)_mR_1$ ;

-  $Z_4$  = O, S or a direct bond;

-  $R_{43}$  and  $R_{44}$ , the same or different, represent a 20 hydrogen atom, a linear or branched  $C_1-C_6$  alkyl group in turn optionally substituted with halogen atoms, a  $C_3-C_6$  alkenyl group in turn optionally substituted with halogen atoms, a  $Q_7$  group, an arylalkyl group optionally substituted by one or more substituents 25 selected from halogen,  $NO_2$ , CN, CHO, linear or

branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> alkoxy, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkoxy, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, C<sub>2</sub>-C<sub>6</sub> alkoxy carbonyl, or they jointly represent a C<sub>2</sub>-5 C<sub>5</sub> alkylene chain;

- D represents:

a heterocyclic group of the heteroaryl or heterocyclic type, in all the above cases the heterocycle can be mono or polycyclic and can be 10 connected to the rest of the structure either through one of its carbon atoms or, when possible, through one of its nitrogen atoms; or it represents a mono or polycyclic aryl group, in this latter case, the group can also be partially 15 saturated;

- R<sub>x</sub> represents a substituent selected from hydrogen, halogen, NO<sub>2</sub>, CN, CHO, OH, linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> alkoxy, linear or branched C<sub>1</sub>-C<sub>6</sub> 20 haloalkoxy, C<sub>1</sub>-C<sub>6</sub> cyanoalkyl, C<sub>2</sub>-C<sub>6</sub> alkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> alkylthioalkyl, C<sub>2</sub>-C<sub>6</sub> alkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> 25 alkylsulfonylalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylthioalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylsulfonylalkyl, C<sub>2</sub>-C<sub>6</sub> alkoxyalkoxy or C<sub>2</sub>-C<sub>6</sub> haloalkoxyalkoxy optionally substituted with a

group selected from  $C_1-C_4$  alkoxyl or  $C_1-C_4$   
 haloalkoxyl,  $C_2-C_6$  haloalkylthioalkoxyl,  $C_3-C_{12}$   
 dialkoxyalkyl,  $C_3-C_{12}$  dialkylthioalkyl,  $C_3-C_{12}$   
 dialkylthioalkoxyl,  $C_3-C_{12}$  dialkoxyalkoxyl,  $C_2-C_6$   
 5 haloalkoxyhaloalkoxyl,  $C_3-C_{10}$  alkoxyalkoxyalkyl,  $C_2-C_6$   
 alkenyl,  $C_2-C_6$  haloalkenyl,  $C_2-C_6$  alkenyloxy,  $C_2-C_6$   
 haloalkenyloxy,  $C_3-C_8$  alkenyloxyalkoxyl,  $C_3-C_8$   
 haloalkenyloxyalkoxyl,  $C_2-C_6$  alkynyl,  $C_2-C_6$   
 haloalkynyl,  $C_2-C_6$  alkynyloxy,  $C_2-C_6$  haloalkynyloxy,  
 10  $C_3-C_8$  alkynyloxyalkoxyl,  $C_3-C_8$  haloalkynyloxyalkoxyl,  
 $C_3-C_{12}$  acylaminoalkoxy,  $C_2-C_8$  alkoxyiminoalkyl,  $C_2-C_8$   
 haloalkoxyiminoalkyl,  $C_3-C_8$  alkenyloxyiminoalkyl,  $C_3-$   
 $C_8$  haloalkenyloxyiminoalkyl,  $C_3-C_8$   
 alkynyloxyiminoalkyl,  $C_3-C_8$  haloalkynyloxyiminoalkyl,  
 15  $C_5-C_{10}$  alkoxyalkynyloxy,  $C_6-C_{12}$   
 cycloalkylideneiminooxyalkyl,  $C_6-C_{12}$   
 dialkylideneiminooxyalkyl,  $-S(O)_mR_1$ ,  $-OS(O)_tR_1$ ,  
 $-SO_2NR_2R_3$ ,  $-CO_2R_4$ ,  $-COR_5$ ,  $-CONR_6R_7$ ,  $-CSNR_8R_9$ ,  
 $-NR_{10}R_{11}$ ,  $-NR_{12}COR_{13}$ ,  $-NR_{14}CO_2R_{15}$ ,  $-NR_{16}CONR_{17}R_{18}$ ,  
 20  $-PO(R_{19})_2$ ,  $-Q$ ,  $-ZQ_1$ ,  $-(CR_{20}R_{21})_pQ_2$ ,  $-Z(CR_{22}R_{23})_pQ_3$ ,  
 $-(CR_{24}R_{25})_pZQ_4$ ,  $-(CR_{26}R_{27})_pZ(CR_{28}R_{29})_qQ_5$ ,  
 $-(CR_{30}R_{31})_pZ(CR_{32}R_{33})_qZ_1Q_6$ ,  $-Z_2(CR_{34}R_{35})_p(C=Y)T$ ,  
 $-Z_3(CR_{36}R_{37})_v(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$ ;  
 if several  $R_x$  groups are present, these can be the  
 25 same or different;

- n = 1-9;

excluding the following compounds having general formula (I) wherein A, B and R have the following meanings:

5 A=4-chlorophenyl, B=1-methylimidazol-2-yl, R=H;  
A=4-nitrophenyl, B=1-(2-hydroxyethyl)-5-nitroimidazol-2-yl, R=H;  
A=phenyl, B=1H-benzimidazol-2-yl, R=C<sub>2</sub>H<sub>5</sub>;  
A=phenyl, B=4H-1-benzopyran-4-yl, R=CH<sub>3</sub>;

10 A=4-nitrophenyl, B=3-(4-methylphenyl)-1,2,4-oxadiazol-5-yl, R=CH<sub>3</sub>;  
A=phenyl, B=4-chloro-2,5-dioxo-2,5-dihydro-1H-pyrrol-3-yl, R=CH<sub>3</sub>;  
A=phenyl, B=2-acetyl-1,2,3,4-tetrahydroisoquinolin-1-yl, R=C<sub>2</sub>H<sub>5</sub>;

15 A=2-hydroxy-4-methoxyphenyl, B=thiazol-4-yl, R=CH<sub>3</sub>;  
A=phenyl, B=2,5-diphenyl-1,3-oxathiol-2-yl, R=CH<sub>3</sub>;  
A=4-nitrophenyl, B=4,6-bis(dimethylamino)-1,3,5-triazin-2-yl, R=CH<sub>3</sub>;

20 A=phenyl, B=furan-2-yl, R=CH<sub>3</sub>;  
A=phenyl, B=1,3-dithian-2-yl, R=CH<sub>3</sub>;  
A=phenyl, B=4-chlorothien-2-yl, R=H;  
A=phenyl, B=5-bromothien-2-yl, R=H;

25 A=phenyl, B=5-methylthien-2-yl, R=H;  
A=phenyl, B=6-phenylpyrazin-2-yl, R=CH<sub>3</sub>;

A=phenyl, B=3,4-dihydro-3-methyl-2-oxo-2H-1,3-benzo-  
oxazin-4-yl, R=CH<sub>3</sub>;

A=phenyl, B=benzothiazol-2-yl, R=CH<sub>3</sub>;

A=2-hydroxy-4-methoxyphenyl, B=2-phenylthiazol-4-yl,  
5 R=CH<sub>3</sub>;

A=phenyl, B=5-methylfuran-2-yl, R=CH<sub>3</sub>;

A=phenyl, B=3-(4-methylphenyl)-1,2,4-oxadiazol-5-yl,  
R=CH<sub>3</sub>;

A=phenyl, B=tetrahydrofuran-2-yl, R=CH<sub>3</sub>;

10 A=phenyl, B=2,3-dihydro-3-hydroxy-2-oxo-1H-indol-3-  
yl, R=CH<sub>3</sub>,

A=phenyl, B=4-chloro-1-methyl-2,5-dioxo-2,5-dihydro-  
pyrrol-3-yl, R=CH<sub>3</sub>;

A=phenyl, B=2-trifluoroacetyl-1,2,3,4-tetrahydroiso-  
15 quinolin-1-yl, R=C<sub>2</sub>H<sub>5</sub>;

A=phenyl, B=2-acetyl-1,2,3,4-tetrahydroisoquinolin-1-  
yl, R=CH<sub>3</sub>;

A=4-nitrophenyl, B=2-(4-nitrophenyl)-3,5,6-triphenyl-  
pyridin-4-yl, R=CH<sub>3</sub>;

20 A=phenyl, B=4,6-bis(dimethylamino)-1,3,5-triazin-2-  
yl, R=CH<sub>3</sub>;

A=phenyl, B=4-methoxy-5-tert-butoxycarbonyl-1H-pyrro-  
2-yl, R=CH<sub>3</sub>;

A=phenyl, B=1,3-dihydro-3-oxo-isobenzofuran-1-yl,  
25 R=CH<sub>3</sub>;

A=phenyl, B=(5-methoxycarbonylmethyl)thien-2-yl, R=H;

A=phenyl, B=4-methylthien-2-yl, R=H;

A=phenyl, B=1,4-dihydro-1-methyl-3-nitroquinolin-4-yl, R=H;

5 A=phenyl, B=thien-2-yl, R=H;

A=phenyl, B=6-methylbenzothiazol-2-yl, R=CH<sub>3</sub>;

A=2-methoxycarbonylphenyl, B=phenyl, R=CH<sub>3</sub>;

A=2-benzyloxy-4-methoxyphenyl, B=2,3,4-trimethoxyphenyl, R=H;

10 A=4,5-dimethoxy-2-nitrophenyl, B=3,4-dimethoxyphenyl, R=H;

A=2-nitrophenyl, B=phenyl, R=H;

A=2,4,5-trimethoxyphenyl, B=4-methoxyphenyl, R=H;

A=4-bromophenyl, B=phenyl, R=H;

15 A=4-bromophenyl, B=2,4-dinitrophenyl, R=CH<sub>3</sub>;

A=4-chlorophenyl, B=phenyl, R=H;

A=2,4-dibenzylxy-5-methoxyphenyl, B=1,3-benzodioxol-5-yl, R=H;

A=2,4-dibenzylxyphenyl, B=1,3-benzodioxol-5-yl, R=H;

20 A=4-methoxyphenyl, B=2-carboxyphenyl, R=H;

A=4-methylphenyl, B=2,4-dinitrophenyl, R=CH<sub>3</sub>;

A=4-hydroxy-3-methoxyphenyl, B=4-hydroxy-3-methoxyphenyl, R=H;

A=2-nitrophenyl, B=4-methylphenyl, R=H;

25 A=4-chlorophenyl, B=4-chlorophenyl, R=H;

A=2,4-diacetoxyphenyl, B=phenyl, R=CH<sub>3</sub>;

A=3-methoxyphenyl, B=phenyl, R=C<sub>2</sub>R<sub>5</sub>;

A=4-nitrophenyl, B=phenyl, R=H;

A=2-nitrophenyl, B=4-n-butoxyphenyl, R=H;

5 A=2-nitro-4-chlorophenyl, B=4-methylphenyl, R=H;

A=phenyl, B=8-carboxynaphthalenyl, R=CH<sub>3</sub>;

A=2,5-dimethoxyphenyl, B=2-hydroxyphenyl, R=C<sub>2</sub>R<sub>5</sub>;

A=4-fluorophenyl, B=2-nitro-4-trifluoromethylphenyl,

R=CH<sub>3</sub>;

10 A=3-chloro-4-methylphenyl, B=2,4-dinitrophenyl,

R=CH<sub>3</sub>;

A=2-nitro-4-chlorophenyl, B=phenyl, R=H;

A=4,5-dimethoxy-2-nitrophenyl, B=4-methylphenyl, R=H;

A=2-carboxy-6-nitrophenyl, B=phenyl, R=CH<sub>3</sub>;

15 A=2,4,5-trimethoxyphenyl, B=3-methoxyphenyl, R=H;

A=phenyl, B=4-bromophenyl, R=H;

A=6-benzyloxy-2,3,4-trimethoxyphenyl, B=1,3-

benzodioxol-5-yl, R=H;

A=4,5-dimethoxy-2-nitrophenyl, B=4-methoxyphenyl,

20 R=H;

A=4,5-dimethoxy-2-nitrophenyl, B=4-chlorophenyl, R=H;

A=2,4-dibenzyloxyphenyl, B=4-methoxyphenyl, R=H;

A=4-methylphenyl, B=4-methylphenyl, R=H;

A=4-dimethylaminophenyl, B=phenyl, R=H;

25 A=4-methoxyphenyl, B=phenyl, R=H;

A=4,5-dichloro-2-nitrophenyl, B=4-chlorophenyl, R=H;  
A=2-nitrophenyl, B=4-methoxyphenyl, R=H;  
A=phenyl, B=2,5-dimethoxycarbonylaminophenyl, R=CH<sub>3</sub>;  
A=4-hydroxy-4-methoxyphenyl, B=2-methoxyphenyl, R=H;  
5 A=phenyl, B=4-methylphenyl, R=H;  
A=2-nitrophenyl, B=4-ethoxyphenyl, R=H;  
A=2-nitro-4-chlorophenyl, B=4-methoxyphenyl, R=H;  
A=4-chlorophenyl, B=phenyl, R=C<sub>2</sub>H<sub>5</sub>;  
A=2-t-butoxycarbonyl-5-ethyl-4-methoxyphenyl, B=2,3-  
10 dihydro-7-methyl-1,4-benzodioxin-6-yl, R=t-butyl;  
A=phenyl, B=2-nitro-4-trifluoromethylphenyl, R=CH<sub>3</sub>;  
A=3,4-dichlorophenyl, B=2,4-dinitrophenyl, R=CH<sub>3</sub>;  
A=4,5-dichloro-2-nitrophenyl, B=4-methoxyphenyl, R=H;  
A=4-methoxy-2-nitrophenyl, B=4-methylphenyl, R=H;  
15 A=phenyl, B=anthracene-9-yl, R=CH<sub>3</sub>;  
A=phenyl, B=4-methoxyphenyl, R=H;  
A=2,4,5-trimethoxyphenyl, B=phenyl, R=H;  
A=2,4-diacetoxyphenyl, B=2,4,5-trimethoxyphenyl,  
R=CH<sub>3</sub>;  
20 A=2-hydroxyphenyl, B=phenyl, R=H;  
A=4-methoxy-2-nitrophenyl, B=phenyl, R=H;  
A=4,5-dimethoxy-2-nitrophenyl, B=phenyl, R=H;  
A=2,4-dinitrophenyl, B=phenyl, R=CH<sub>3</sub>;  
A=phenyl, B=phenyl, R=CH<sub>3</sub>;  
25 A=phenyl, B=4-dimethylaminophenyl, R=H;

A=phenyl, B=2,4-dinitrophenyl, R=CH<sub>3</sub>;

A=4,5-dichloro-2-nitrophenyl, B=4-methylphenyl, R=H;

A=4-bromophenyl, B=phenyl, R=CH<sub>3</sub>;

A=2-(4-methylphenylsulfonyloxy)-6-methoxyphenyl,

5 B=phenyl, R=H;

A=4-methylsulfonylphenyl, B=2-methoxyphenyl, R=CH<sub>3</sub>;

A=4-methoxyphenyl, B=4-methoxyphenyl, R=CH<sub>3</sub>;

A=phenyl, B=4-chlorophenyl, R=H;

A=2-nitrophenyl, B=4-nitrophenyl, R=H;

10 A=phenyl, B=phenyl, R=H;

A=2,4-dimethoxyphenyl, B=4-methoxyphenyl, R=H;

A=2-nitrophenyl, B=4-n-hexyloxyphenyl, R=H;

A=4-methoxy-2-nitrophenyl, B=4-methoxyphenyl, R=H;

A=phenyl, B=9-carboxyphenanthren-10-yl, R=CH<sub>3</sub>;

15 A=phenyl, B=phenyl, R=CH<sub>3</sub>;

A=3,4-dimethoxyphenyl, B=3,4-dimethoxyphenyl, R=H;

A=2,4-dimethoxyphenyl, B=phenyl, R=H;

A=phenyl, B=2-hydroxy-3,4,6-trimethyl-5-

methoxyphenyl, R=CH<sub>3</sub>;

20 A=4-chloro-2-nitrophenyl, B=4-chlorophenyl, R=H;

A=2-nitrophenyl, B=4-chlorophenyl, R=H;

A=2,4,5-trimethoxyphenyl, B=3,4-dimethoxyphenyl, R=H;

A=4-chlorophenyl, B=2,4-dinitrophenyl, R=CH<sub>3</sub>;

A=4,5-dichloro-2-nitrophenyl, B=phenyl, R=H;

25 A=4-methoxyphenyl, B=phenyl, R=CH<sub>3</sub>;

A=2,4-dibenzylxyphenyl, B=3,4-dimethoxyphenyl, R=H;

A=4-methylthiophenyl, B=4-methoxyphenyl, R=CH<sub>3</sub>;

A=phenyl, B=phenyl, R=C<sub>2</sub>H<sub>5</sub>;

A=4-methoxyphenyl, B=2,4-dinitrophenyl, R=CH<sub>3</sub>;

5 A=2-nitrophenyl, B=3-chlorophenyl, R=H;

A=2-nitrophenyl, B=3,4-dimethoxyphenyl, R=H;

A=4-methoxyphenyl, B=4-methoxyphenyl, R=H;

A=2-hydroxyphenyl, B=4-methoxyphenyl, R=H;

A=phenyl, B=2,5-bis (phenacylamino)phenyl, R=CH<sub>3</sub>;

10 A=4-nitrophenyl, B=4-methylphenyl, R=H;

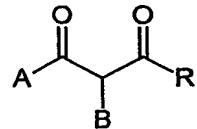
A=2-nitrophenyl, B=4-n-pentyloxyphenyl, R=H;

A=4-methoxy-2-nitrophenyl, B=4-chlorophenyl, R=H;

A=phenyl, B=2-carboxynaphthalen-1-yl, R=CH<sub>3</sub>.

2. The derivatives according to claim 1,  
 15 characterized in that the compound having formula (I)  
 are present as tautomeric and/or isomeric forms, pure  
 or as blends of tautomeric and/or isomeric forms, in  
 any proportion whatsoever.

3. Use of derivatives of 1,3-diones having  
 20 general formula (I):



( I )

wherein:

- A represents:

an aryl group optionally substituted by one or more substituents selected from halogen, NO<sub>2</sub>, CN, CHO, OH,

5 linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> alkoxy, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkoxy, C<sub>1</sub>-C<sub>6</sub> cyanoalkyl, C<sub>2</sub>-C<sub>6</sub> alkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> alkylthioalkyl, C<sub>2</sub>-C<sub>6</sub> alkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> alkylsulfonylalkyl, C<sub>2</sub>-C<sub>6</sub>

10 haloalkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylthioalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylsulfonylalkyl, C<sub>2</sub>-C<sub>6</sub> alkoxyalkoxy or C<sub>2</sub>-C<sub>6</sub> haloalkoxyalkoxy possibly substituted with a C<sub>1</sub>-C<sub>4</sub> alkoxy or C<sub>1</sub>-C<sub>4</sub> haloalkoxy group, C<sub>2</sub>-C<sub>6</sub> alkylthioalkoxy, C<sub>2</sub>-C<sub>6</sub>

15 haloalkylthioalkoxy, C<sub>3</sub>-C<sub>12</sub> dialkoxyalkyl, C<sub>3</sub>-C<sub>12</sub> dialkylthioalkyl, C<sub>3</sub>-C<sub>12</sub> dialkylthioalkoxy, C<sub>3</sub>-C<sub>12</sub> dialkoxyalkoxy, C<sub>2</sub>-C<sub>6</sub> haloalkoxyhaloalkoxy, C<sub>3</sub>-C<sub>10</sub> alkoxyalkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl, C<sub>2</sub>-C<sub>6</sub> haloalkenyl, C<sub>2</sub>-C<sub>6</sub> alkenyloxy, C<sub>2</sub>-C<sub>6</sub> haloalkenyloxy, C<sub>3</sub>-C<sub>8</sub>

20 alkenyloxyalkoxy, C<sub>3</sub>-C<sub>8</sub> haloalkenyloxyalkoxy, C<sub>2</sub>-C<sub>6</sub> alkynyl, C<sub>2</sub>-C<sub>6</sub> haloalkynyl, C<sub>2</sub>-C<sub>6</sub> alkynyloxy, C<sub>2</sub>-C<sub>6</sub> haloalkynyloxy, C<sub>3</sub>-C<sub>8</sub> alkynyloxyalkoxy, C<sub>3</sub>-C<sub>8</sub> haloalkynyloxyalkoxy, C<sub>3</sub>-C<sub>12</sub> acylaminoalkoxy, C<sub>2</sub>-C<sub>8</sub> alkoxyiminoalkyl, C<sub>2</sub>-C<sub>8</sub> haloalkoxyiminoalkyl, C<sub>3</sub>-C<sub>8</sub>

25 alkenyloxyiminoalkyl, C<sub>3</sub>-C<sub>8</sub> haloalkenyloxyiminoalkyl,

C <sub>3</sub> -C <sub>8</sub>	alkynyloxyiminoalkyl,	C <sub>3</sub> -C <sub>8</sub>
	haloalkynyloxyiminoalkyl, C <sub>5</sub> -C <sub>10</sub> alkoxyalkynyloxyl,	
C <sub>6</sub> -C <sub>12</sub>	cycloalkylideneiminooxyalkyl,	C <sub>6</sub> -C <sub>12</sub>
	dialkylideneiminooxyalkyl, -S(O) <sub>m</sub> R <sub>1</sub> ,	-OS(O) <sub>n</sub> R <sub>1</sub> ,
5	-SO <sub>2</sub> NR <sub>2</sub> R <sub>3</sub> , -CO <sub>2</sub> R <sub>4</sub> , -COR <sub>5</sub> , -CONR <sub>6</sub> R <sub>7</sub> , -CSNR <sub>8</sub> R <sub>9</sub> ,	
	-NR <sub>10</sub> R <sub>11</sub> , -NR <sub>12</sub> COR <sub>13</sub> , -NR <sub>14</sub> CO <sub>2</sub> R <sub>15</sub> , -NR <sub>16</sub> CONR <sub>17</sub> R <sub>18</sub> ,	
	-PO(R <sub>19</sub> ) <sub>2</sub> , -Q, -ZQ <sub>1</sub> , -(CR <sub>20</sub> R <sub>21</sub> ) <sub>p</sub> Q <sub>2</sub> , -Z(CR <sub>22</sub> R <sub>23</sub> ) <sub>p</sub> Q <sub>3</sub> ,	
	- (CR <sub>24</sub> R <sub>25</sub> ) <sub>p</sub> ZQ <sub>4</sub> ,	- (CR <sub>26</sub> R <sub>27</sub> ) <sub>p</sub> Z(CR <sub>28</sub> R <sub>29</sub> ) <sub>q</sub> Q <sub>5</sub> ,
	- (CR <sub>30</sub> R <sub>31</sub> ) <sub>p</sub> Z(CR <sub>32</sub> R <sub>33</sub> ) <sub>q</sub> Z <sub>1</sub> Q <sub>6</sub> ,	-Z <sub>2</sub> (CR <sub>34</sub> R <sub>35</sub> ) <sub>p</sub> (C=Y)T,
10	-Z <sub>3</sub> (CR <sub>36</sub> R <sub>37</sub> ) <sub>v</sub> (CR <sub>38</sub> R <sub>39</sub> =CR <sub>40</sub> R <sub>41</sub> ) (C=Y)T;	
	or represents a heterocyclic group selected from pyridyl, pyrimidyl, quinolinyl, pyrazolyl, thiazolyl, oxazolyl, thienyl, furyl, benzothienyl, dihydrobenzothienyl, benzofuranyl,	
15	dihydrobenzofuranyl, benzoxazolyl, benzoxazolonyl, benzothiazolyl, benzothiazolonyl, benzoimidazolyl, benzoimidazolonyl, benzotriazolyl, chromanonyl, chromanyl, thiochromanonyl, thiochromanyl, 3a,4-dihydro-3H-indeno[1,2-c]isoxazolyl, 3a,4-dihydro-3H-	
	chromeno[4,3-c]isoxazolyl, 5,5-dioxide-3a,4-dihydro-3H-thiochromeno[4,3-c]isoxazolyl,	2,3,3a,4-
20	tetrahydrochromeno[4,3-c]pyrazolyl, 6,6-dioxide-2,3-dihydro-5H-[1,4]dithiino[2,3-c]thiochromenyl, 5,5-dioxide-2,3,3a,4-tetrahydrothiochromeno[4,3-	5,5-
	c]pyrazolyl, 1',1'-dioxide-2',3'-dihydrospiro[1,3-	
25		

dioxolane-2,4'-thiochromen]-yl, 1,1,4,4-tetraoxide-  
2,3-dihydro-1,4-benzodithiin-6-yl 4,4-dioxide-2,3-  
dihydro-1,4-benzoxathiin-7-yl, 1,1-dioxide-3-oxo-2,3-  
dihydro-1,2-benzoisothiazol-5-yl, 4-(alkoxyimino)-  
5 1,1-dioxide-3,4-dihydro-2H-thiochromen-6-yl, 1,1-  
dioxide-4-oxo-3,4-dihydro-2H-thiochromen-6-yl, 2,3-  
dihydro-1,4-benzoxathiin-7-yl,  
with all these groups possibly substituted by one or  
more substituents selected from halogen, NO<sub>2</sub>, CN,  
10 CHO, OH, linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or  
branched C<sub>1</sub>-C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub>  
alkoxyl, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkoxyl, C<sub>1</sub>-C<sub>6</sub>  
cyanoalkyl, C<sub>2</sub>-C<sub>6</sub> alkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> alkylthioalkyl,  
C<sub>2</sub>-C<sub>6</sub> alkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> alkylsulfonylalkyl,  
15 C<sub>2</sub>-C<sub>6</sub> haloalkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylthioalkyl, C<sub>2</sub>-C<sub>6</sub>  
haloalkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylsulfonylalkyl,  
C<sub>2</sub>-C<sub>6</sub> alkoxyalkoxyl or C<sub>2</sub>-C<sub>6</sub> haloalkoxyalkoxyl,  
possibly substituted with a C<sub>1</sub>-C<sub>4</sub> alkoxyl or C<sub>1</sub>-C<sub>4</sub>  
haloalkoxyl group, C<sub>2</sub>-C<sub>6</sub> alkylthioalkoxyl, C<sub>2</sub>-C<sub>6</sub>  
20 haloalkylthioalkoxyl, C<sub>3</sub>-C<sub>12</sub> dialkoxyalkyl, C<sub>3</sub>-C<sub>12</sub>  
dialkylthioalkyl, C<sub>3</sub>-C<sub>12</sub> dialkylthioalkoxyl, C<sub>3</sub>-C<sub>12</sub>  
dialkoxyalkoxyl, C<sub>2</sub>-C<sub>6</sub> haloalkoxyhaloalkoxyl, C<sub>3</sub>-C<sub>10</sub>  
alkoxyalkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> alkenyl,  
C<sub>2</sub>-C<sub>6</sub> haloalkenyl, C<sub>2</sub>-C<sub>6</sub> alkenyloxy, C<sub>2</sub>-C<sub>6</sub>  
25 haloalkenyloxy, C<sub>3</sub>-C<sub>8</sub> alkenyloxyalkoxyl, C<sub>3</sub>-C<sub>8</sub>

haloalkenyloxyalkoxyl, C<sub>2</sub>-C<sub>6</sub> alkynyl, C<sub>2</sub>-C<sub>6</sub>  
 haloalkynyl, C<sub>2</sub>-C<sub>6</sub> alkynyloxy, C<sub>2</sub>-C<sub>6</sub> haloalkynyloxy,  
 C<sub>3</sub>-C<sub>8</sub> alkynyloxyalkoxyl, C<sub>3</sub>-C<sub>8</sub> haloalkynyloxyalkoxyl,  
 C<sub>3</sub>-C<sub>12</sub> acylaminoalkoxy, C<sub>2</sub>-C<sub>8</sub> alkoxyiminoalkyl, C<sub>2</sub>-C<sub>8</sub>  
 5 haloalkoxyiminoalkyl, C<sub>3</sub>-C<sub>8</sub> alkenyloxyiminoalkyl, C<sub>3</sub>-  
 C<sub>8</sub> haloalkenyloxyiminoalkyl, C<sub>3</sub>-C<sub>8</sub>  
 alkynyloxyiminoalkyl, C<sub>3</sub>-C<sub>8</sub> haloalkynyloxyiminoalkyl,  
 C<sub>5</sub>-C<sub>10</sub> alkoxyalkynyloxy, C<sub>6</sub>-C<sub>12</sub>  
 cycloalkylideneiminooxyalkyl, C<sub>6</sub>-C<sub>12</sub>  
 10 dialkylideneiminooxyalkyl, -S(O)<sub>m</sub>R<sub>1</sub>, -OS(O)<sub>t</sub>R<sub>1</sub>,  
 -SO<sub>2</sub>NR<sub>2</sub>R<sub>3</sub>, -CO<sub>2</sub>R<sub>4</sub>, -COR<sub>5</sub>, -CONR<sub>6</sub>R<sub>7</sub>, -CSNR<sub>8</sub>R<sub>9</sub>,  
 -NR<sub>10</sub>R<sub>11</sub>, -NR<sub>12</sub>COR<sub>13</sub>, -NR<sub>14</sub>CO<sub>2</sub>R<sub>15</sub>, -NR<sub>16</sub>CONR<sub>17</sub>R<sub>18</sub>,  
 -PO(R<sub>19</sub>)<sub>2</sub>, -Q, -ZQ<sub>1</sub>, -(CR<sub>20</sub>R<sub>21</sub>)<sub>p</sub>Q<sub>2</sub>, -Z(CR<sub>22</sub>R<sub>23</sub>)<sub>p</sub>Q<sub>3</sub>,  
 -(CR<sub>24</sub>R<sub>25</sub>)<sub>p</sub>ZQ<sub>4</sub>, -(CR<sub>26</sub>R<sub>27</sub>)<sub>p</sub>Z(CR<sub>28</sub>R<sub>29</sub>)<sub>q</sub>Q<sub>5</sub>,  
 15 -(CR<sub>30</sub>R<sub>31</sub>)<sub>p</sub>Z(CR<sub>32</sub>R<sub>33</sub>)<sub>q</sub>Z<sub>1</sub>Q<sub>6</sub>, -Z<sub>2</sub>(CR<sub>34</sub>R<sub>35</sub>)<sub>p</sub>(C=Y)T,  
 -Z<sub>3</sub>(CR<sub>36</sub>R<sub>37</sub>)<sub>v</sub>(CR<sub>38</sub>R<sub>39</sub>=CR<sub>40</sub>R<sub>41</sub>)(C=Y)T;  
 - B represents a D-(R<sub>x</sub>)<sub>n</sub> group;  
 - R represents a hydrogen atom, a linear or  
 branched C<sub>1</sub>-C<sub>6</sub> alkyl group, a linear or branched C<sub>1</sub>-C<sub>6</sub>  
 20 haloalkyl group, a C<sub>3</sub>-C<sub>6</sub> cycloalkyl group or a C<sub>4</sub>-C<sub>12</sub>  
 cycloalkylalkyl group possibly substituted with  
 halogen atoms or C<sub>1</sub>-C<sub>6</sub> alkyl or C<sub>1</sub>-C<sub>6</sub> thioalkyl or C<sub>1</sub>-  
 C<sub>6</sub> alkoxy or C<sub>2</sub>-C<sub>6</sub> alkoxy carbonyl groups, alkenyl C<sub>2</sub>-  
 C<sub>6</sub> groups, alkynyl C<sub>2</sub>-C<sub>6</sub> groups, the latter two  
 25 groups, in turn, possibly substituted with halogen

atoms, a C<sub>5</sub>-C<sub>6</sub> cycloalkenyl group possibly substituted with halogen atoms or C<sub>1</sub>-C<sub>6</sub> alkyl groups, an aryl or arylalkyl group optionally substituted;

- R<sub>1</sub> and R<sub>19</sub>, represent a C<sub>1</sub>-C<sub>6</sub> alkyl or C<sub>1</sub>-C<sub>6</sub> haloalkyl group, a C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, an aryl group optionally substituted by one or more substituents selected from halogen, NO<sub>2</sub>, CN, CHO, linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> alkoxy, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkoxy, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl, C<sub>2</sub>-C<sub>6</sub> alkoxy carbonyl;

- m is equal to 0, 1 or 2;

- t is equal to 1 or 2;

- R<sub>2</sub>, R<sub>3</sub>, R<sub>6</sub>, R<sub>7</sub>, R<sub>8</sub>, R<sub>9</sub>, R<sub>10</sub>, R<sub>11</sub>, R<sub>17</sub> and R<sub>18</sub>, the same or different, represent a hydrogen atom, a linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl group in turn possibly substituted with halogen atoms, a C<sub>1</sub>-C<sub>6</sub> alkoxy group, a C<sub>3</sub>-C<sub>6</sub> cycloalkyl group, an arylalkyl group or an aryl group, said arylalkyl or aryl groups also optionally substituted with one or more substituents selected from halogen, NO<sub>2</sub>, CN, CHO, linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> alkoxy, linear or branched C<sub>1</sub>-C<sub>6</sub> haloalkoxy, C<sub>1</sub>-C<sub>6</sub> alkylsulfonyl,

$C_2-C_6$  alkoxy carbonyl or, together, represent a  $C_2-C_5$  alkylenic chain;

-  $R_4$ ,  $R_5$  and  $R_{42}$ , represent a hydrogen atom, a linear or branched  $C_1-C_6$  alkyl group in turn possibly

5 substituted with halogen atoms, a  $C_3-C_6$  alkenyl group in turn possibly substituted with halogen atoms, a  $Q_7$  group, an arylalkyl group possibly substituted with one or more substituents selected from halogen,  $NO_2$ ,  $CN$ ,  $CHO$ , linear or branched  $C_1-C_6$  alkyl, linear or  
10 branched  $C_1-C_6$  haloalkyl, linear or branched  $C_1-C_6$  alkoxy, linear or branched  $C_1-C_6$  haloalkoxy,  $C_1-C_6$  alkylsulfonyl,  $C_2-C_6$  alkoxy carbonyl;

-  $R_{12}$ ,  $R_{14}$  and  $R_{16}$ , represent a hydrogen atom, a linear or branched  $C_1-C_6$  alkyl group in turn possibly  
15 substituted with halogen atoms, a  $C_3-C_6$  cycloalkyl group, a  $C_1-C_6$  alkoxy group, a  $C_1-C_6$  haloalkoxy group;

-  $R_{13}$  and  $R_{15}$ , represent a hydrogen atom, a linear or branched  $C_1-C_6$  alkyl group in turn possibly  
20 substituted with halogen atoms, a  $C_3-C_6$  alkenyl group, in turn possibly substituted with halogen atoms, a  $Q_7$  group,  $NH_2$ ,  $NHCN$ ,  $NHNH_2$ ,  $NHOH$ , an arylalkyl group possibly substituted with one or more substituents selected from halogen,  $NO_2$ ,  $CN$ ,  $CHO$ ,  
25 linear or branched  $C_1-C_6$  alkyl, linear or branched  $C_1-$

$C_6$  haloalkyl, linear or branched  $C_1-C_6$  alkoxy, linear or branched  $C_1-C_6$  haloalkoxy,  $C_1-C_6$  alkylsulfonyl,  $C_2-C_6$  alkoxy carbonyl;

-  $R_{20}$ ,  $R_{21}$ ,  $R_{22}$ ,  $R_{23}$ ,  $R_{24}$ ,  $R_{25}$ ,  $R_{26}$ ,  $R_{27}$ ,  $R_{28}$ ,  $R_{29}$ ,  $R_{30}$ ,  $R_{31}$ ,

5  $R_{32}$ ,  $R_{33}$ ,  $R_{34}$ ,  $R_{35}$ ,  $R_{36}$ ,  $R_{37}$ ,  $R_{38}$ ,  $R_{39}$ ,  $R_{40}$  and  $R_{41}$ , the same or different, represent a hydrogen atom, a linear or branched  $C_1-C_6$  alkyl group in turn optionally substituted with halogen atoms, a  $C_1-C_6$  alkoxy group, or the two groups attached to the same 10 carbon atom can be joined to each other by  $C_2-C_5$  alkylene groups, the alkylene groups can in turn be substituted with  $C_1-C_3$  alkyl groups;

-  $Q$ ,  $Q_1$ ,  $Q_2$ ,  $Q_3$ ,  $Q_4$ ,  $Q_5$ ,  $Q_6$  and  $Q_7$  represent an aryl group, a  $C_3-C_6$  cycloalkyl group,  $C_5-C_6$  cycloalkenyl, a

15 heterocyclic group selected from triazolyl, triazolonyl, pyrazolyl, imidazolyl, imidazolyl dinonyl, tetrazolyl, tetrazolonyl, isoxazolyl, furyl, thieryl, pyrrolyl, pyrrolidinyl, pyrrolidinonyl, pyridyl, pyrimidinyl, pyrimidinonyl, pyrazinyl, pyridazinyl, 20 oxazolyl, thiazolyl, oxadiazolyl, thiadiazolyl, isothiazolyl, benzoxazolyl, benzothiazolyl, isoxazolinyl, 1,3-dioxanyl, 1,4-dioxanyl, 1,3-dioxolanyl, tetrahydropyranyl, oxethanyl, oxyranyl, thiazolidinyl, oxazolidinyl, piperidinyl, 25 piperidinonyl, piperazinyl, morpholinyl, thiazinyl,

tetrahydrofuranyl, dioxazolyl,  
tetrahydrofuroisoxazolyl, 2-oxa-3-  
azabicyclo[3.1.0]hex-3-enyl,  
said groups optionally substituted by one or more  
5 substituents selected from halogen, NO<sub>2</sub>, CN, CHO,  
linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl, linear or branched C<sub>1</sub>-  
C<sub>6</sub> haloalkyl, linear or branched C<sub>1</sub>-C<sub>6</sub> alkoxy, linear  
or branched C<sub>1</sub>-C<sub>6</sub> haloalkoxy, C<sub>1</sub>-C<sub>6</sub> cyanoalkyl, C<sub>2</sub>-C<sub>6</sub>  
alkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> alkylthioalkyl, C<sub>2</sub>-C<sub>6</sub>  
10 alkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> alkylsulfonylalkyl, C<sub>2</sub>-C<sub>6</sub>  
haloalkoxyalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylthioalkyl, C<sub>2</sub>-C<sub>6</sub>  
haloalkylsulfinylalkyl, C<sub>2</sub>-C<sub>6</sub> haloalkylsulfonylalkyl,  
C<sub>2</sub>-C<sub>6</sub> alkoxyalkoxy or C<sub>2</sub>-C<sub>6</sub> haloalkoxyalkoxy  
optionally substituted with a group selected from C<sub>1</sub>-  
15 C<sub>4</sub> alkoxy or C<sub>1</sub>-C<sub>4</sub> haloalkoxy, C<sub>2</sub>-C<sub>6</sub>  
alkylthioalkoxy, C<sub>2</sub>-C<sub>6</sub> haloalkylthioalkoxy, C<sub>3</sub>-C<sub>12</sub>  
dialkoxyalkyl, C<sub>3</sub>-C<sub>12</sub> dialkylthioalkyl, C<sub>3</sub>-C<sub>12</sub>  
dialkylthioalkoxy, C<sub>3</sub>-C<sub>12</sub> dialkoxyalkoxy, C<sub>2</sub>-C<sub>6</sub>  
haloalkoxyhaloalkoxy, C<sub>3</sub>-C<sub>10</sub> alkoxyalkoxyalkyl, C<sub>2</sub>-C<sub>6</sub>  
20 alkenyl, C<sub>2</sub>-C<sub>6</sub> haloalkenyl, C<sub>2</sub>-C<sub>6</sub> alkenyloxy, C<sub>2</sub>-C<sub>6</sub>  
haloalkenyloxy, C<sub>3</sub>-C<sub>8</sub> alkenyloxyalkoxy, C<sub>3</sub>-C<sub>8</sub>  
haloalkenyloxyalkoxy, C<sub>2</sub>-C<sub>6</sub> alkynyl, C<sub>2</sub>-C<sub>6</sub>  
haloalkynyl, C<sub>2</sub>-C<sub>6</sub> alkynylloxy, C<sub>2</sub>-C<sub>6</sub> haloalkynylloxy,  
C<sub>3</sub>-C<sub>8</sub> alkynylloxyalkoxy, C<sub>3</sub>-C<sub>8</sub> haloalkynylloxyalkoxy,  
25 C<sub>3</sub>-C<sub>12</sub> acylaminoalkoxy, C<sub>2</sub>-C<sub>8</sub> alkoxyiminoalkyl, C<sub>2</sub>-C<sub>8</sub>

haloalkoxyiminoalkyl,  $C_3-C_8$  alkenyloxyiminoalkyl,  $C_3-C_8$   
 C<sub>8</sub> haloalkenylloxyiminoalkyl,  $C_3-C_8$   
 alkynyloxyiminoalkyl,  $C_3-C_8$  haloalkynyloxyiminoalkyl,  
 C<sub>5</sub>-C<sub>10</sub> alkoxyalkynyloxy,  $C_6-C_{12}$   
 5 cycloalkylideneiminooxyalkyl,  $C_6-C_{12}$   
 dialkylideneiminooxyalkyl, aryl optionally substituted,  
 -S(O)<sub>m</sub>R<sub>1</sub>, -OS(O)<sub>t</sub>R<sub>1</sub>, -SO<sub>2</sub>NR<sub>2</sub>R<sub>3</sub>,  
 -CO<sub>2</sub>R<sub>4</sub>, -COR<sub>5</sub>, -CONR<sub>6</sub>R<sub>7</sub>, -CSNR<sub>8</sub>R<sub>9</sub>, -NR<sub>10</sub>R<sub>11</sub>,  
 -NR<sub>12</sub>COR<sub>13</sub>, -NR<sub>14</sub>CO<sub>2</sub>R<sub>15</sub>, -NR<sub>16</sub>CONR<sub>17</sub>R<sub>18</sub>, -PO(R<sub>19</sub>)<sub>2</sub>,  
 10 -Z<sub>2</sub>(CR<sub>34</sub>R<sub>35</sub>)<sub>p</sub>(C=Y)T, -Z<sub>3</sub>(CR<sub>36</sub>R<sub>37</sub>)<sub>v</sub>(CR<sub>38</sub>R<sub>39</sub>=CR<sub>40</sub>R<sub>41</sub>)(C=Y)T;  
 - Z<sub>1</sub>, Z<sub>2</sub> = O, S(O)<sub>r</sub>;  
 - Y = O, S;  
 - r is equal to 0, 1 or 2;  
 - p, q are equal to 1, 2, 3 or 4;  
 15 - v is equal to 0 or 1;  
 - Z<sub>3</sub> = O, S or a direct bond;  
 - T represents a hydrogen atom, a Z<sub>4</sub>R<sub>42</sub> group, a  
 -NR<sub>43</sub>R<sub>44</sub> group, an aryl group or a heterocyclic group  
 selected from triazolyl, triazolonyl, pyrazolyl,  
 20 imidazolyl, imidazolidinonyl, tetrazolyl,  
 tetrazolonyl, pyrrolyl, pyrrolidinyl, pyrrolidinonyl,  
 pyridyl, pyrimidinyl, piperidinyl, piperidinonyl,  
 piperazinyl, morpholinyl, said groups optionally  
 substituted by one or more substituents selected from  
 25 halogen, NO<sub>2</sub>, OH, CN, CHO, linear or branched C<sub>1</sub>-C<sub>6</sub>

alkyl, linear or branched  $C_1-C_6$  haloalkyl,  $C_3-C_6$  cycloalkyl,  $C_5-C_6$  cycloalkenyl, linear or branched  $C_1-C_6$  alkoxy, linear or branched  $C_1-C_6$  haloalkoxy,  $C_1-C_6$  cyanoalkyl,  $C_2-C_6$  alkoxyalkyl,  $C_2-C_6$

5      alkylthioalkyl,  $C_2-C_6$  alkylsulfinylalkyl,  $C_2-C_6$  alkylsulfonylalkyl,  $C_2-C_6$  haloalkoxyalkyl,  $C_2-C_6$  haloalkylthioalkyl,  $C_2-C_6$  haloalkylsulfinylalkyl,  $C_2-C_6$  haloalkylsulfonylalkyl,  $-S(O)_mR_1$ ;

-  $Z_4$  = O, S or a direct bond;

10     -  $R_{43}$  and  $R_{44}$ , the same or different, represent a hydrogen atom, a linear or branched  $C_1-C_6$  alkyl group in turn optionally substituted with halogen atoms, a  $C_3-C_6$  alkenyl group in turn optionally substituted with halogen atoms, a  $Q_7$  group, an arylalkyl group

15     optionally substituted by one or more substituents selected from halogen,  $NO_2$ , CN, CHO, linear or branched  $C_1-C_6$  alkyl, linear or branched  $C_1-C_6$  haloalkyl, linear or branched  $C_1-C_6$  alkoxy, linear or branched  $C_1-C_6$  haloalkoxy,  $C_1-C_6$  alkylsulfonyl,

20      $C_2-C_6$  alkoxy carbonyl, or they jointly represent a  $C_2-C_5$  alkylene chain;

- D represents:

   a heterocyclic group of the heteroaryl or heterocyclic type, in all the above cases the

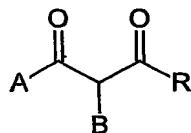
25     heterocycle can be mono or polycyclic and can be

connected to the rest of the structure either through one of its carbon atoms or, when possible, through one of its nitrogen atoms;

5 or it represents a mono or polycyclic aryl group, in this latter case, the group can also be partially saturated;

-  $R_x$  represents a substituent selected from hydrogen, halogen,  $NO_2$ ,  $CN$ ,  $CHO$ ,  $OH$ , linear or branched  $C_1-C_6$  alkyl, linear or branched  $C_1-C_6$  haloalkyl, linear or branched  $C_1-C_6$  alkoxy, linear or branched  $C_1-C_6$  haloalkoxy,  $C_1-C_6$  cyanoalkyl,  $C_2-C_6$  alkoxyalkyl,  $C_2-C_6$  alkylthioalkyl,  $C_2-C_6$  alkylsulfinylalkyl,  $C_2-C_6$  alkylsulfonylalkyl,  $C_2-C_6$  haloalkoxyalkyl,  $C_2-C_6$  haloalkylthioalkyl,  $C_2-C_6$  haloalkylsulfinylalkyl,  $C_2-C_6$  haloalkylsulfonylalkyl,  $C_2-C_6$  alkoxyalkoxy or  $C_2-C_6$  haloalkoxyalkoxy optionally substituted with a group selected from  $C_1-C_4$  alkoxy or  $C_1-C_4$  haloalkoxy,  $C_2-C_6$  alkylthioalkoxy,  $C_2-C_6$  haloalkylthioalkoxy,  $C_3-C_{12}$  dialkoxyalkyl,  $C_3-C_{12}$  dialkylthioalkyl,  $C_3-C_{12}$  dialkylthioalkoxy,  $C_2-C_6$  haloalkoxyhaloalkoxy,  $C_3-C_{10}$  alkoxyalkoxyalkyl,  $C_2-C_6$  alkenyl,  $C_2-C_6$  haloalkenyl,  $C_2-C_6$  alkenyloxy,  $C_2-C_6$  haloalkenyloxy,  $C_3-C_8$  alkenyloxyalkoxy,  $C_3-C_8$  haloalkenyloxyalkoxy,  $C_2-C_6$  alkynyl,  $C_2-C_6$  haloalkynyl,  $C_2-C_6$  alkynyloxy,  $C_2-C_6$

haloalkynyloxy,  $C_3-C_8$  alkynyloxyalkoxyl,  $C_3-C_8$   
 haloalkynyloxyalkoxyl,  $C_3-C_{12}$  acylaminoalkoxy,  $C_2-C_8$   
 alkoxyiminoalkyl,  $C_2-C_8$  haloalkoxyiminoalkyl,  $C_3-C_8$   
 alkenyloxyiminoalkyl,  $C_3-C_8$  haloalkenyloxyiminoalkyl,  
 5  $C_3-C_8$  alkynyloxyiminoalkyl,  $C_3-C_8$   
 haloalkynyloxyiminoalkyl,  $C_5-C_{10}$  alkoxyalkynyloxy,  $C_6-C_{12}$   
 cycloalkylideneiminooxyalkyl,  $C_6-C_{12}$   
 dialkylideneiminooxyalkyl,  $-S(O)_mR_1$ ,  $-OS(O)_tR_1$ ,  
 $-SO_2NR_2R_3$ ,  $-CO_2R_4$ ,  $-COR_5$ ,  $-CONR_6R_7$ ,  $-CSNR_8R_9$ ,  
 10  $-NR_{10}R_{11}$ ,  $-NR_{12}COR_{13}$ ,  $-NR_{14}CO_2R_{15}$ ,  $-NR_{16}CONR_{17}R_{18}$ ,  
 $-PO(R_{19})_2$ ,  $-Q$ ,  $-ZQ_1$ ,  $-(CR_{20}R_{21})_pQ_2$ ,  $-Z(CR_{22}R_{23})_pQ_3$ ,  
 $-(CR_{24}R_{25})_pZQ_4$ ,  $-(CR_{26}R_{27})_pZ(CR_{28}R_{29})_qQ_5$ ,  
 $-(CR_{30}R_{31})_pZ(CR_{32}R_{33})_qZ_1Q_6$ ,  $-Z_2(CR_{34}R_{35})_p(C=Y)T$ ,  
 $-Z_3(CR_{36}R_{37})_v(CR_{38}R_{39}=CR_{40}R_{41})(C=Y)T$ ;  
 15 if several  $R_x$  groups are present, these can be the  
 same or different;  
 - n = 1-9;  
 and of the relevant salts which have agronomical  
 compatibility, as herbicides.  
 20 4. Use according to claim 3, for the control  
 under pre-emergence and post-emergence of  
 monocotyledon and dicotyledon weeds.  
 5. Use of derivatives of 1,3-diones having general  
 formula (I):



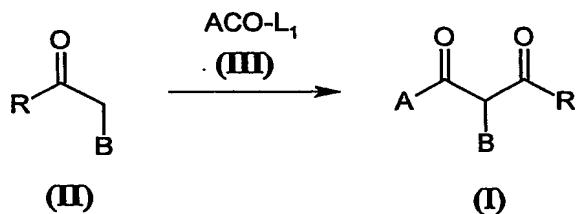
( I )

wherein:

5 - A, B and R have the meanings defined according to claim 3, and of the relevant salts pharmaceutically acceptable as medicaments.

6. A process for the preparation of the compounds having general formula (I) according to any 10 of the claims 1 to 3, characterized in that it includes a reaction of a carbonyl compound having general formula (II) with a compound having general formula (III), according to the reaction scheme 1

Scheme 1:



15

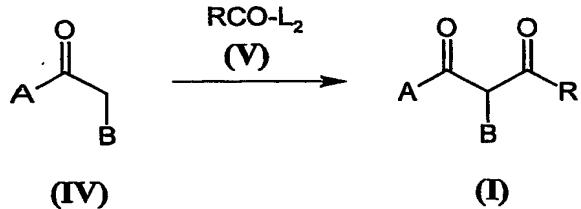
wherein

- A, B and R have the meanings previously defined;  
 -  $\text{L}_1$  represents a suitable leaving group such as, for example, a halogen atom, a CN group, an imidazol-  
~~1-yl group, an  $\text{R}_1\text{O}-$  group wherein  $\text{R}_1$  represents a  $\text{C}_1-$~~   
 ~~$\text{C}_4$  alkyl group or a phenyl group optionally~~

substituted, or it represents an  $R_{L1}COO^-$  group wherein  $R_{L1}$  represents a hydrogen atom, a  $C_1-C_4$  alkyl or haloalkyl group, a phenyl group optionally substituted or an A group.

5        7. The process for the preparation of the  
compounds having general formula (I) according to any  
of the claims 1 to 3, characterized in that it  
includes a reaction of a carbonyl compound having  
general formula (IV) with a compound having general  
10 formula (V), according to the reaction scheme 2

**Scheme 2:**

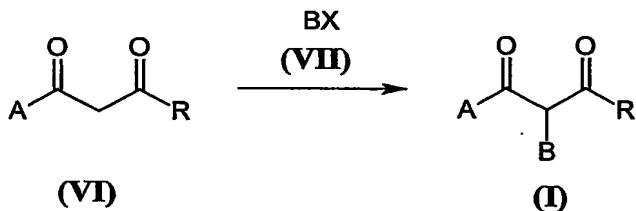


wherein

- A, B and R have the meanings previously defined;
- L<sub>2</sub> represents a suitable leaving group such as,  
15 for example, a halogen atom, a CN group, an imidazol-1-yl group, an R<sub>L</sub>O- group wherein R<sub>L</sub> represents a C<sub>1</sub>-C<sub>4</sub> alkyl group or a phenyl group optionally substituted, or it represents an R<sub>L1</sub>COO- group wherein R<sub>L1</sub> represents a hydrogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl or haloalkyl group, a phenyl group optionally substituted or an R group.  
20

8. The process for the preparation of the compounds having general formula (I) according to any of the claims 1 to 3, characterized in that it includes a reaction of a 1,3-dicarbonyl compound 5 having general formula (VI) with a compound having general formula (VII), according to the reaction scheme 3

Scheme 3:



wherein

10 - A, B and R have the meanings previously defined;

- X represents a halogen atom, an  $\text{R}_{\text{L}2}\text{SO}_2\text{O}^-$  group, wherein  $\text{R}_{\text{L}2}$  represents a  $\text{C}_1\text{-C}_4$  alkyl or haloalkyl group, a phenyl group optionally substituted by  $\text{C}_1\text{-C}_4$  alkyl groups, or it represents an  $\text{R}_{\text{L}3}\text{SO}_2^-$  group,

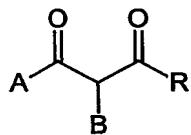
15 wherein  $\text{R}_{\text{L}3}$  represents a  $\text{C}_1\text{-C}_4$  alkyl or haloalkyl group.

9. The process according to any of the claims from 6 to 8, characterized in that the reaction is carried out in the presence of one or more inert 20 organic solvents and in the presence of an organic or

inorganic base, at a temperature ranging from -80°C to the boiling temperature of the reaction mix.

10. The process according to claim 9, characterized in that the reaction is carried out in  
5 two separate phases.

11. A method for the control of weeds in agricultural crops, by the application of compounds having general formula (I):



10

( I )

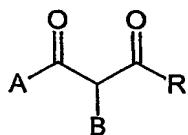
wherein:

- A, B and R have the meanings according to claim

15 3.

12. The method according to claim 11, characterized in that the quantity of compound having formula (I) to be applied ranges from 1 g to 4,000 g per hectare.

20 13. Herbicidal compositions containing, as active principle, one or more compounds having general formula (I):



( I )

wherein:

5 - A, B and R have the meanings according to claim  
3, possibly also as a blend of tautomers and/or  
isomers.

14. The herbicidal compositions according to  
claim 13, including other active principles  
10 compatible with the compounds having general formula  
(I), such as other herbicides, fungicides,  
insecticides, acaricides, fertilizers, etc..

15. The herbicidal compositions according to  
claim 14, characterized in that the additional  
herbicides are selected from:

acetochlor, acifluorfen, aclonifen, AKH-7088,  
alachlor, aloxydim, ametryn, amicarbazone,  
amidosulfuron, amitrole, anilofos, asulam, atrazine,  
azafenidin, azimsulfuron, aziprotryne, BAS 670 H, BAY  
20 MKH 6561, beflubutamid, benazolin, benfluralin,  
benfuresate, bensulfuron, bensulide, bentazone,  
benzfendizone, benzobicyclon, benzofenap,  
benzthiazuron, bifenoxy, bilanafos, bispyribac-sodium,  
bromacil, bromobutide, bromofenoxim, bromoxynil,

butachlor, butafenacil, butamifos, butenachlor,  
butralin, butoxydim, butylate, cafenstrole,  
carbetamide, carfentrazone-ethyl, chlomethoxyfen,  
chloramben, chlorbromuron, chlorbufam, chlorflurenol,  
5 chloridazon, chlorimuron, chlornitrofen,  
chlorotoluron, chloroxuron, chlorpropham,  
chlorsulfuron, chlorthal, chlorthiamid, cinidon  
ethyl, cinmethylin, cinosulfuron, clethodim,  
clodinafop, clomazone, clomeprop, clopyralid,  
10 cloransulam-methyl, cumyluron (JC-940), cyanazine,  
cycloate, cyclosulfamuron, cycloxydim, cyhalofop-  
butyl, 2,4-D, 2,4-DB, daimuron, dalapon, desmedipham,  
desmetryn, dicamba, dichlobenil, dichlorprop,  
dichlorprop-P, diclofop, diclosulam, diethatyl,  
15 difenoxuron, difenzoquat, diflufenican,  
diflufenzopyr, dimefuron, dimepiperate, dimethachlor,  
dimethametryn, dimethenamid, dinitramine, dinosseb,  
dinoseb acetate, dinoterb, diphenamid, dipropetryn,  
diquat, dithiopyr, 1-diuron, eglinazine, endothal,  
20 EPTC, espropcarb, ethalfluralin, ethametsulfuron-  
methyl, ethidimuron, ethiozin (SMY 1500),  
ethofumesate, ethoxyfen-ethyl (HC-252),  
ethoxysulfuron, etobenzanid (HW 52), fenoxaprop,  
fenoxaprop-P, fentrazamide, fenuron, flamprop,  
25 flamprop-M, flazasulfuron, florasulam, fluazifop,

fluazifop-P, fluazolate (JV 485), flucarbazone-sodium, fluchloralin, flufenacet, flufenpyr ethyl, flumetsulam, flumiclorac-pentyl, flumioxazin, flumipropin, fluometuron, fluoroglycofen,  
5 fluoronitrofen, flupoxam, fluproanate, flupyrulfuron, flurenol, fluridone, flurochloridone, fluroxypyr, flurtamone, fluthiacet-methyl, fomesafen, foramsulfuron, fosamine, furyloxyfen, glufosinate, glyphosate, halosulfuron-methyl, haloxyfop,  
10 haloxyfop-P-methyl, hexazinone, imazamethabenz, imazamox, imazapic, imazapyr, imazaquin, imazethapyr, imazosulfuron, indanofan, iodosulfuron, ioxynil, isopropalin, isoproturon, isouron, isoxaben, isoxachlortole, isoxaflutole, isoxapryifop, KPP-421,  
15 lactofen, lenacil, linuron, LS830556, MCPA, MCPA-thioethyl, MCPB, mecoprop, mecoprop-P, mefenacet, mesosulfuron, mesotrione, metamitron, metazachlor, methabenzthiazuron, methazole, methoprottryne, methyldymron, metobenzuron, metobromuron,  
20 metolachlor, S-metolachlor, metosulam, metoxuron, metribuzin, metsulfuron, molinate, monalide, monolinuron, naproanilide, napropamide, naptalam, NC-330, neburon, nicosulfuron, nipyrapclofen, norflurazon, orbencarb, oryzalin, oxadiargyl,  
25 oxadiaxon, oxasulfuron, oxaziclofone, oxyfluorfen,

paraquat, pebulate, pendimethalin, penoxsulam,  
pentanochlor, pentozazone, pethoxamid,, phenmedipham,  
picloram, picolinafen, piperophos, pretilachlor,  
primisulfuron, prodiamine, profluazol, proglinazine,  
5 prometon, prometryne, propachlor, propanil,  
propaquizafop, propazine, propham, propisochlor,  
propyzamide, prosulfocarb, prosulfuron, pyraclonil,  
pyraflufen-ethyl, pyrazogyl (HAS-961), pyrazolynate,  
pyrazosulfuron, pyrazoxyfen, pyribenzoxim,  
10 pyributicarb, pyridafol, pyridate, pyriftalid,  
pyriminobac-methyl, pyrithiobac-sodium, quinclorac,  
quinmerac, quizalofop, quizalofop-P, rimsulfuron,  
sethoxydim, siduron, simazine, simetryn, sulcotrione,  
sulfentrazone, sulfometuron-methyl, sulfosulfuron,  
15 2,3,6-TBA, TCA-sodium, tebutam, tebuthiuron,  
tepraloxydim, terbacil, terbumeton, terbutyl-azine,  
terbutryn, thenylchlor, thiazafluron, thiazopyr,  
thidiazimin, thifensulfuron-methyl, thiobencarb,  
tiocarbazil, tioclorim, tralkoxydim, tri-allate,  
20 triasulfuron, triaziflam, tribenuron, triclopyr,  
triethylazine, trifloxysulfuron, trifluralin,  
triflusulfuron-methyl, tritosulfuron, UBI-C4874,  
vernolate.

16. The compositions according to any of the claims 13-15, characterized in that the concentration of active substance ranges from 1 to 90%.